Name:

Teacher:

Geometry, Period

**Honors Geometry**

HW #4H: Interpreting Graphs and Tables

Due: Tuesday, September 8th

Directions: Failure to use complete sentences will result in LaSalle. Remember: WHY > HOW > WHAT. If you get stuck do not leave the problem blank, attempt the problem, write down questions/ reasons you are stuck.

1. **T-Shirt Deal:** You can get 4 T-shirts for $3 at a special sale.

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| --- | --- | --- |
| How much would 60 t-shirts cost? | | How many t-shirts could you get for $72? |
| Create a data table for this situation:   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | | |
| Graph this situation.  What shape does this graph make?  What is the slope of this line? | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |

1. **Fitting Data with Linear Functions:** Assume that both the relationships below are linear.

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| |  |  | | --- | --- | | Year | Population | | 2002 | 23,400 | | 2006 | 27,800 |   *What will the population be in 2020?*  *What are the units for slope?* | |  |  |  |  |  | | --- | --- | --- | --- | --- | | ***w*, number of weeks** | 0 | 2 | 4 | 6 | | ***P(w)*, number of rats** | 1000 | 1080 | 1160 | 1240 |   *How many rats will there be in 20 weeks?*  What are the units for slope? |

1. **Analyzing Tile Patterns:** Find the number of tiles in the 100th figure in each sequence.

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